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PRINTING
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19971128
TI - (A)
ELECTROLUMINESCENT INSERT
MOLDING, ITS MANUFACTURE
AND ELECTROLUMINESCENT
INSERT FILM
AB - (A) PROBLEM TO BE
SOLVED: To make an
electroluminescent part finely run
alongside a curved part of a resin
molding and also prevent attenuation
of electroluminescent brightness and
damaging and peeling the
electroluminescent film. SOLUTION:
After an electroluminescent part the
electroluminescent insert film 5 with
an electroluminescent layer 2
containing elastomer resin laminated at
least on one surface of light
transmitting film on which three
dimensional drawing can be applied in
an area of a temperature range of 0
deg.C-250 deg.C is molded to a three
dimensional shape, it is fitted in a
cavity forming surface 19 of a movable
die 18, molding resin is injected in the
cavity by closing the movable die 18
and a fixed die 17 and at the same time
of molding an injection molding, the
electroluminescent insert film 5 and
the injection molding are integrally
molded.
IC - (A) H05B33/02;
B29C45/14; B32B7/02; B32B25/08;
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FT - 3K007/AB15;
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4F100/AK01A; 4F100/AK01D;
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4F100/AK12; 4F100/AK15;
4F100/AK15G; 4F100/AK22G;
4F100/AK25A; 4F100/AK25G;
4F100/AK41G; 4F100/AK42;
4F100/AK45; 4F100/AK48;
4F100/AK51; 4F100/AK51G;
4F100/AK68; 4F100/AK69;
4F100/AK74; 4F100/AL09B;
4F100/AL09G; 4F100/AR00C;
4F100/BA02; 4F100/BA03;
4F100/BA05; 4F100/BA07;
4F100/BA10B; 4F100/BA10C;
4F100/BA44B; 4F100/CA13;
4F100/CB00; 4F100/DD01;
4F100/EH362; 4F100/EH661;
4F100/EJ201; 4F100/EJ241;
4F100/EJ391; 4F100/EJ952;
4F100/GB31; 4F100/GB33;
4F100/GB48; 4F100/HB00C;
4F100/HB01; 4F100/JG01B;
4F100/JG04B; 4F100/JK06;
4F100/JK14; 4F100/JL00;
4F100/JL01A; 4F100/JN01A;
4F100/JN01B; 4F100/JN13B;
4F100/JN13H; 4F100/JN30;
4F206/AA10; 4F206/AA11;
4F206/AA13; 4F206/AA24;
4F206/AA28; 4F206/AA29;
4F206/AB25; 4F206/AD05;
4F206/AD09; 4F206/AD20;
4F206/AF03; 4F206/AF08;

4F206/AG03; 4F206/AG05;
4F206/AH25; 4F206/AH33;
4F206/AH73; 4F206/JA07;
4F206/JB13; 4F206/JB19;
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5C096/FA17

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AN - 1999-410101 [35]
TI - Electroluminescence
light emitting film for display panels -
has electroluminescence light emitting
layer with elastomeric resin formed in
one side of transparent film
AB - JP11162633
NOVELTY - A transparent film has
electroluminescence (EL) light
emitting layer (2) having and elastomer
in one side. The transparent film
laminate formed at 0-250 deg. C spins
the light three dimensionally.

- DETAILED DESCRIPTION -
The EL light emitting inert film is an
acryl film in which an image layer is
formed on back side of EL light
emitting layer. The light emitting layer
consists of a laminate of transparent
electrode, a fluorescent layer,
insulating layer and a back plate. Each
layer of the laminate contains an
elastomer resin. The fluorescent layer
is laminated partially in the light
emitting layer. The back of a back
plate is provided with a back film. The
film in which at least one layer formed
three dimensionally is inserted in a
mold cavity for injection molding.

- An INDEPENDENT CLAIM
is also included for injection molding
of EL light emitting film inserted
products, that involves injecting a resin
into a closed mold containing the insert
film.

- USE - For display panels used
in motor vehicle internal equipment

components, house hold electric
appliances etc.

- ADVANTAGE - An EL light
emitting film suitable for injection
molded curved products is easily
obtained. The crack generated during
changing the film forcibly is
prevented. The adhesion of the light
emission insert film is carried out
firmly. Hence the separation of insert
film due to wear is prevented.

- DESCRIPTION OF
DRAWING - The figure shows the
sectional drawing showing the EL light
emission insert film for mouldings. (2)
EL light emission layer.

- (Dwg.1/10)

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IW -

ELECTROLUMINESCENT
LIGHT EMIT FILM DISPLAY
PANEL ELECTROLUMINESCENT
LIGHT EMIT LAYER ELASTOMER
RESIN FORMING ONE SIDE
TRANSPARENT FILM

IC - B29C45/14 ;B32B7/02
;B32B25/08 ;G09F13/22 ;H05B33/02
;H05B33/14 ;H05B33/22

MC - A04-F01A A11-B12A
A12-E11 L03-C04

- U14-J X26-J

DC - A32 A85 L03 P73 P85
U14 X22 X26